

By Tuesday Rost

Access DB# 160878

a.m.

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Richard Lee Examiner #: 71786 Date: 8/11/03  
Art Unit: 2613 Phone Number 30 8-6612 Serial Number: \_\_\_\_\_  
Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Litigation

2) US

US

5745182

(child)

7 family

1) US

US

5369449

(parent)

first

Need by Tues. a.m.

Look for

See attached Serial # two

## STAFF USE ONLY

Searcher: Pamela Reynolds  
Searcher Phone #: 306-0255  
Searcher Location: PLC 3603  
Date Searcher Picked Up: 8-12-03  
Date Completed: 8-12-03  
Searcher Prep & Review Time: \_\_\_\_\_  
Clerical Prep Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

### Type of Search

NA Sequence (#) \_\_\_\_\_  
AA Sequence (#) \_\_\_\_\_  
Structure (#) \_\_\_\_\_  
Bibliographic \_\_\_\_\_  
Litigation \_\_\_\_\_  
Patent Family \_\_\_\_\_  
Other \_\_\_\_\_

### Vendors and cost where applicable

STN \_\_\_\_\_  
Dialog ☒ \_\_\_\_\_  
Questel/Orbit ☒ \_\_\_\_\_  
Dr. Link \_\_\_\_\_  
Lexis/Nexis ☒ \_\_\_\_\_  
Sequence Systems \_\_\_\_\_  
WWW/Internet \_\_\_\_\_  
Other (specify) \_\_\_\_\_

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5369449 A 19941129 [US5369449]

TI - (A) Method for predicting move compensation

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN -

(A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

AP -

US97004692 19921102 [1992US-0970046]

PR- JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004]

IC - (A) H04N-007/137

EC- H04N-005/14M2

H04N-005/44P

H04N-007/26P36E

H04N-007/36E

H04N-007/36E4

H04N-007/36E8

H04N-007/46E

PCL - ORIGINAL (O) : 348699000; CROSS-REFERENCE (X) : 375240120

DT -

Corresponding document

CT - US4691230; US4864294; US4989089; US4998168; US5049991; US5093720;  
US5105271; US5132792; US5144427; US5162907; US5175618; US5191414; US5200820;  
US5210605; EP0395271 A2; EP0395440 A2; EP0447068 A2; EP0484140 A2

A. Puri, et al, "Video Coding with Motion-Compensated Interpolation for CD-ROM Applications", Signal Processing. Image Communication, vol. 2, No. 2, pp. 127-144, Aug. 1990.

K. Kinuhata, et al, "Universal Digital TV Codec-Unicodex", 7th International Conference on Digital Satellite Communications, May 1986, pp. 281-288.

M. Hoetter, "Differential Estimation of the Global Motion Parameters Zoom and Pan", Signal Processing. European Journal Devoted to the Methods and Applications of Signal Processing, vol. 16, No. 3, Mar. 1989, pp. 249-265.

Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

"Transmission of Component-Coded Digital Television Signals for Contribution-Quality Applications of the Third Hierarchical Level of CCITT Recommendation G.702," CCITT Recommendation 723 of CMTT. Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding (2)" International Organization for Standardization ISO/IEC/JTC1/SC29/WG11 MPEG92/100, Mar. 11, 1992.

Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding" CCITT SGXV Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991. Shiji Inoue, et al "Motion Compensation Method for Interlace Video" Spring conference of the institute of Electronics Information and Communication Engineers of Japan, 1992.

STG - (A) United States patent

AB - A method for predicting move compensation of an input image based on a move vector of the input image from this input image to a reference image which has been sampled at a first set time, and the method includes calculating a move vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a move vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move

compensation of the input image is calculated both from the move vector of the input image and from the move vector of the reference image, to thereby realize a method for predicting move compensation with high precision.

1 / 1 LGST - ©LEGSTAT

PN - US 5369449 [US5369449]

AP- US 970046/92 19921102 [1992US-0970046]

DT- US-P

ACT- 19921102 US/AE-A

APPLICATION DATA (PATENT)

US 970046/92 19921102 [1992US-0970046]

19921102 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA,  
KADOMA-SHI OSAKA,

JAP \* YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI : 19921028

19941129 US/A

PATENT

UP - 1999-15

3/39/1 (Item 1 from file: 345)  
DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat  
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11148435

Basic Patent (No, Kind, Date): CA 2082280 AA 19930509 <No. of Patents: 016>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 637289	B1	19930520	AU 9228162	A	19921104	
CA 2082280	AA	19930509	CA 2082280	A	19921105	(BASIC)
CA 2082280	C	19950207	CA 2082280	A	19921105	
DE 69225863	C0	19980716	DE 69225863	A	19921106	
DE 69225863	T2	19981022	DE 69225863	A	19921106	
EP 541389	A2	19930512	EP 92310187	A	19921106	
EP 541389	A3	19940330	EP 92310187	A	19921106	
EP 541389	B1	19980610	EP 92310187	A	19921106	
JP 5130594	A2	19930525	JP 91293004	A	19911108	
JP 6030395	A2	19940204	JP 92181980	A	19920709	
JP 2929044	B2	19990803	JP 91293004	A	19911108	
JP 2938677	B2	19990823	JP 92181980	A	19920709	
KR 9506774	B1	19950622	KR 9220769	A	19921106	
US 5369449	A	19941129	US 970046	A	19921102	
US 5745182	A	19980428	US 278010	A	19940720	
US 5978032	A	19991102	US 883315	A	19970626	

Priority Data (No, Kind, Date):

JP 91293004 A 19911108  
JP 92181980 A 19920709  
US 278010 A 19940720  
US 970046 A3 19921102  
US 883315 A 19970626  
US 278010 A3 19940720

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No, Kind, Date): AU 637289 B1 19930520  
METHOD FOR PREDICTING MOVE COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI  
Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
Applic (No, Kind, Date): AU 9228162 A 19921104  
IPC: \* G06F-015/70; G06F-015/68; H04N-007/137  
Language of Document: English

CANADA (CA)

Patent (No, Kind, Date): CA 2082280 AA 19930509  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
Applic (No, Kind, Date): CA 2082280 A 19921105  
IPC: \*) H04N-007/12  
Language of Document: English  
Patent (No, Kind, Date): CA 2082280 C 19950207  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No, Kind, Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): CA 2082280 A 19921105  
IPC: \* H04N-007/12  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69225863 C0 19980716  
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A  
19920709

Applic (No,Kind,Date): DE 69225863 A 19921106  
IPC: \* H04N-007/24; H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: German

Patent (No,Kind,Date): DE 69225863 T2 19981022  
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A  
19920709

Applic (No,Kind,Date): DE 69225863 A 19921106  
IPC: \* H04N-007/24; H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):  
DE 69225863 P 19980716 DE REF CORRESPONDS TO (ENTSPRICHT)  
  
EP 541389 P 19980716  
DE 69225863 P 19981022 DE 8373 TRANSLATION OF PATENT  
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND  
HAS BEEN PUBLISHED (UEBERSETZUNG DER  
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST  
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)  
DE 69225863 P 19990708 DE 8364 NO OPPOSITION DURING TERM OF  
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE  
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541389 A2 19930512  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A  
19920709

Applic (No,Kind,Date): EP 92310187 A 19921106  
Designated States: (National) BE; DE; FR; GB; NL; SE  
IPC: \* H04N-007/13  
Derwent WPI Acc No: ; G 93-154317  
Language of Document: English

Patent (No,Kind,Date): EP 541389 A3 19940330  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A

19920709

Applic (No,Kind,Date): EP 92310187 A 19921106

Designated States: (National) BE; DE; FR; GB; NL; SE

IPC: \* H04N-007/13

Derwent WPI Acc No: \* G 93-154317

JAPIO Reference No: \* 170511E000053

Language of Document: English

Patent (No,Kind,Date): EP 541389 B1 19980610

METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)

Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): EP 92310187 A 19921106

Designated States: (National) BE; DE; FR; GB; NL; SE

IPC: \* H04N-007/24; H04N-007/32

Derwent WPI Acc No: \* G 93-154317

JAPIO Reference No: \* 170511E000053; 180246E000083

Language of Document: English

#### EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 541389 P 19911108 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 541389 P 19920709 EP AA JP 91293004 A 19911108 PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 541389 P 19921106 EP AE JP 92181980 A 19920709 EP-APPLICATION (EUROPAEISCHE ANMELDUNG)

EP 541389 P 19930512 EP AK EP 92310187 A 19921106 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

EP 541389 P 19930512 EP A2 BE DE FR GB NL SE PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)

EP 541389 P 19940330 EP AK DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

EP 541389 P 19940330 EP A3 BE DE FR GB NL SE SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))

EP 541389 P 19941019 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 940818

EP 541389 P 19951220 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 951102

EP 541389 P 19980610 EP AK DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)

			BE DE FR GB NL SE	
EP 541389	P	19980610	EP B1	PATENT SPECIFICATION
			(PATENTSCHRIFT)	
EP 541389	P	19980716	EP REF	CORRESPONDS TO:
			(ENTSPRICHT)	
			DE 69225863	P 19980716
EP 541389	P	19980911	EP ET	FR: TRANSLATION FILED (FR:
			TRADUCTION A ETE REMISE)	
EP 541389	P	19990602	EP 26N	NO OPPOSITION FILED (KEIN
			EINSPRUCH EINGELEGT)	
EP 541389	P	20020101	GB IF02/REG	EUROPEAN PATENT IN FORCE AS
			OF 2002-01-01	

JAPAN (JP)

Patent (No,Kind,Date): JP 5130594 A2 19930525  
 DEVICE FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES  
 (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
 Author (Inventor): INOUE SHUJI  
 Priority (No,Kind,Date): JP 91293004 A 19911108  
 Applic (No,Kind,Date): JP 91293004 A 19911108  
 IPC: \* H04N-007/137; H03M-007/30  
 JAPIO Reference No: ; 170511E000053  
 Language of Document: Japanese

Patent (No,Kind,Date): JP 6030395 A2 19940204  
 METHOD FOR PREDICTING MOTION COMPENSATION (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
 Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI  
 Priority (No,Kind,Date): JP 92181980 A 19920709  
 Applic (No,Kind,Date): JP 92181980 A 19920709  
 IPC: \* H04N-007/137  
 JAPIO Reference No: ; 180246E000083  
 Language of Document: Japanese

Patent (No,Kind,Date): JP 2929044 B2 19990803  
 Priority (No,Kind,Date): JP 91293004 A 19911108  
 Applic (No,Kind,Date): JP 91293004 A 19911108  
 IPC: \* H04N-007/32; H03M-007/30  
 Derwent WPI Acc No: \* G 93-154317  
 JAPIO Reference No: \* 170511E000053  
 Language of Document: Japanese

Patent (No,Kind,Date): JP 2938677 B2 19990823  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
 Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI  
 Priority (No,Kind,Date): JP 92181980 A 19920709  
 Applic (No,Kind,Date): JP 92181980 A 19920709  
 IPC: \* H04N-007/32  
 Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9506774 B1 19950622  
 MOTION COMPENSATION PREDICTIVE METHOD (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)  
 Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
 Applic (No,Kind,Date): KR 9220769 A 19921106  
 IPC: \* H04N-007/24  
 Derwent WPI Acc No: \* G 93-154317  
 JAPIO Reference No: \* 170511E000053; 180246E000083  
 Language of Document: Korean

## UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5369449 A 19941129  
 METHOD FOR PREDICTING MOVE COMPENSATION (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
 Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): US 970046 A 19921102  
 National Class: \* 348699000; 348416000  
 IPC: \* H04N-007/137  
 Derwent WPI Acc No: \* G 93-154317  
 JAPIO Reference No: \* 170511E000053; 180246E000083  
 Language of Document: English

Patent (No,Kind,Date): US 5745182 A 19980428  
 METHOD FOR DETERMINING MOTION COMPENSATION (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
 Priority (No,Kind,Date): US 278010 A 19940720; JP 91293004 A 19911108; JP 92181980 A 19920709; US 970046 A3 19921102

Applic (No,Kind,Date): US 278010 A 19940720  
 Addnl Info: 5369449 Patented  
 National Class: \* 348416000; 348699000  
 IPC: \* H04N-007/32  
 Derwent WPI Acc No: \* G 93-154317  
 JAPIO Reference No: \* 170511E000053; 180246E000083  
 Language of Document: English

Patent (No,Kind,Date): US 5978032 A 19991102  
 METHOD FOR PREDICTING MOTION COMPENSATION (English)  
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
 Priority (No,Kind,Date): US 883315 A 19970626; JP 91293004 A 19911108; JP 92181980 A 19920709; US 278010 A3 19940720; US 970046 A3 19921102

Applic (No,Kind,Date): US 883315 A 19970626  
 Addnl Info: 5745182 Patented; 5369449 Patented  
 National Class: \* 348416000; 348699000  
 IPC: \* H04N-007/32  
 Derwent WPI Acc No: \* G 93-154317  
 JAPIO Reference No: \* 170511E000053; 180246E000083  
 Language of Document: English

## UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5369449	P	19911108	US AA	PRIORITY (PATENT)
			JP 91293004 A	19911108
US 5369449	P	19920709	US AA	PRIORITY (PATENT)
			JP 92181980 A	19920709
US 5369449	P	19921102	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 970046 A	19921102
US 5369449	P	19921102	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAP ;	
			YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI : 19921028	
US 5369449	P	19941129	US A	PATENT
US 5745182	P	19911108	US AA	PRIORITY (PATENT)
			JP 91293004 A	19911108
US 5745182	P	19920709	US AA	PRIORITY (PATENT)
			JP 92181980 A	19920709



US 5745182	P	19921102	US AA	PRIORITY
		US 970046	A3	19921102
US 5745182	P	19940720	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 278010	A	19940720
US 5745182	P	19980428	US A	PATENT
US 5745182	P	20000613	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		20000427		
US 5978032	P	19911108	US AA	PRIORITY (PATENT)
		JP 91293004	A	19911108
US 5978032	P	19920709	US AA	PRIORITY (PATENT)
		JP 92181980	A	19920709
US 5978032	P	19921102	US AA	PRIORITY
		US 970046	A3	19921102
US 5978032	P	19940720	US AA	PRIORITY
		US 278010	A3	19940720
US 5978032	P	19970626	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 883315	A	19970626
US 5978032	P	19991102	US A	PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5369449

<=1> GET 1st DRAWING SHEET OF 6  
<=21> Link to Claims Section

November 29, 1994

LEXIS-NEXIS  
Library: PATENT  
File: ALL

Method for predicting move compensation

INVENTOR: Yukitake, Takeshi, Yokohama, JP; Inoue, Shuji, Yokohama, JP

APPL-NO: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNORS INTEREST., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

APPL-NQ: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNORS INTEREST., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006; OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

IPC-MAIN-CL: H 04N007#137

PRIM-EXMR: Chin, Tommy P.

ASST-EXMR: Lee, Richard

REF-CITED:

<=2> 4691230, 1987, United States (US)  
<=3> 4864294, 1989, United States (US)  
<=4> 4989089, 1991, United States (US)  
<=5> 4998168, 1991, United States (US)  
<=6> 5049991, 1991, United States (US)  
<=7> 5093720, 1992, United States (US)  
<=8> 5105271, 1992, United States (US)

5,369,449 OR 5369449

Library: PATENT  
File: CASES

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Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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LEXIS-NEXIS  
Library: PATENT  
File: JNLS

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

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What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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LEXIS-NEXIS  
Library: NEWS  
File: CURNWS

Your search request has found no STORIES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

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